(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 18 November 2004 (18.11.2004)

PCT

(10) International Publication Number WO 2004/099385 A2

(51) International Patent Classification7:

C12N

(21) International Application Number:

PCT/US2004/013799

(22) International Filing Date: 30 April 2004 (30.04.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/466,427

30 April 2003 (30.04.2003)

(71) Applicant (for all designated States except US): DUKE UNIVERSITY [US/US]; Office of Science and Technology, P.O. Box 90083, Durham, NC 27708-0083 (US).

(72) Inventors; and

- (75) Inventors/Applicants (for US only): Christopher, M. [US/US]; c/o Duke University, Pharmacology and Cancer Biology, P.O. Box 3813, Durham, NC 27708-0083 (US). ARMBRUSTER, Blaine, N. [US/US]; c/o Duke University, Pharmacology and Cancer Biology, P.O. Box 3813, Durham, NC 27708-0083 (US).
- (74) Agent: WILSON, Mary, J.; Nixon & Vanderhye P.C., Suite 800, 1100 North Glebe Road, Arlington, VA 22201-4714 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB. GD. GE. GH. GM. HR. HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: TELOMERE ELONGATION

(57) Abstract: The present invention relates, in general, to telomeres, and, in particular, to a method or effecting telomere elongation in mammalian cells. The invention further relates to a protein suitable for use in such a method and to nucleic acid sequences encoding same.